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17. PROVIDE NEW 120/208V 3ø, 100A SQUARE D PANEL WITH 24 SPARE 20A SINGLE POLE BREAKERS. PULL POWER FROM THREE LEAST CRITICAL CIRCUITS THAT YOU CAN RE-FEED FROM YOUR NEW PANEL. COORDINATE WITH LAB PERSONNEL AND COTR. RE-PULL NEW CONDUCTORS; CONDUIT AND PROVIDE A NEW CIRCUIT BREAKER TO MATCH EXISTING FOR RE-WIRED CIRCUIT.

- CONTRACTOR TO ROUTE PUMPED CONDENSATE TO NEAREST SANITARY WASTE LINE OR TAILPIPE OF LAVATORY AND PROVIDE AIR CAP FITTING (WITH ASSOCIATED TRAP AS REQUIRED).
  - CONTRACTOR TO ROUTE NEW DX LINESET UP THROUGH EXISTING STRUCTURE TO CONDENSING UNIT ON ROOF. ACTUAL ROUTING WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR, AND COORDINATED WITH THE ARCHITECT/ ENGINEER PRIOR TO INSTALLATION.
  - PROVIDE WALL MOUNTED THERMOSTAT / SENSOR FOR FAN COIL UNIT LOCATED AT 48" ABOVE FINISHED FLOOR LEVEL, AND TIE INTO EXISTING BUILDING MANAGEMENT SYSTEM.
  - INSTALL NEW FAN COIL UNIT BETWEEN TOP OF EXISTING DROD FRAME AND CEILING STRUCTURE.
  - CONTRACTOR TO INSTALL WALL MOUNTED FAN COIL UNIT AT 6'-6" ABOVE FINISH FLOOR TO BOTTOM OF UNIT.
  - CONTRACTOR TO DEMOLISH EXISTING SUPPLY AND EXHUST DUCTS BACK TO WALL PENETRATION AND CAP DUCTS.
  - REMOVE EXISTING LIGHT FIXTURE.
  - REMOVE EXISTING FLEX DUCT AND SUPPLY DIFFUSER AND CAP DUCT.
  - CONTRACTOR TO PROVIDE SHEET METAL DRAIN PAN UNDER EXISTING CHILLED WATER PIPES. PROVIDE CONDENSATE SENSOR, PUMP AND PIPING TO NEAREST SANITARY WASTE LINE OR TAIL PIPE OF LAVATORY AND PROVIDE AIR CAP FITTING (WITH ASSOCIATED TRAP AS REQUIRED).
  - PROVIDE WALL MOUNTED SUPPLY AND RETURN GRILL MOUNTED ABOVE DROD FRAME.
  - INSTALL FAN COIL UNIT IN CEILING SPACE SUCH THAT SERVICE CLEARANCE FOR UNIT IS MAINTAINED.
  - PROVIDE CEILING MOUNTED SUPPLY AND RETURN GRILLES.
  - EXISTING LIGHT FIXTURE TO BE RELOCATED TO ALLOW INSTALLATION OF NEW FAN COIL UNIT ABOVE DROD.
  - CONTRACTOR TO REMOVE FLEX DUCT AND SUPPLY DIFFUSER AND CAP AT SHEET METAL DUCT.
  - CONTRACTOR TO REMOVE SUPPLY AND RETURN GRILLE AND CAP DUCTWORK.
  - CONTRACTOR TO REMOVE / DISCARD EXISTING 2 PIPE FAN COIL UNIT AND CAP HYDRONIC PIPING.
  - PROVIDE ROOF CURB AND FLASHING FOR PIPES ASSOCIATED WITH NEW CONDENSING UNIT ON ROOF.
  - PROVIDE WALL MOUNTED SUPPLY AND RETURN GRILLE.
  - REMOVE EXISTING DUCT FROM FAN COIL UNIT TO ROOM 2C208B-1 & 2C20C AND CAP DUCT IN ELECTRICAL ROOM.
  - ROOF MOUNTED CONDENSING UNIT CU-1 SERVICES UNITS: FC-1-1 (RM 1A19A-1), FC-8-1 (RM 1D18-1), FC-9-1 (RM 1D49-1), FC-13-1 (RM 2A15C-1), FC-17-1 (RM 2D07-1), FC-19-1 (RM 3A15A-1), FC-22-1 (RM 3D07-1), FC-23-1 (RM 4A15D-1), FC-27-1 (RM 6A15-1), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE603.
  - ROOF MOUNTED CONDENSING UNIT CU-4 SERVICES UNITS: FC-1-14 (RM BA05-14), FC-3-14 (RM 2B02-14), FC-6-14 (RM 3B03-14), FC-9-14 (RM GB34-14), FC-10-14 (RM 1B10-14), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE603.
  - ROOF MOUNTED CONDENSING UNIT CU-5 SERVICES UNITS: FC-2-14 (RM 2B25-14), FC-4-14 (RM 2B43-14), FC-5-14 (RM 3B01C-14), FC-7-14 (RM BC07-14), FC-10-14 (RM GB51A-14), FC-11-14 (RM GB64-14), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE604.
  - ROOF MOUNTED CONDENSING UNIT CU-6 SERVICES UNITS: FC-1-2 (RM G008B-2), FC-2-2 (RM GA28-2), FC-3-2 (RM GB03-2), FC-6-2 (RM 1A36-2), FC-7-2 (RM 1B09-2), FC-11-2 (RM 2A24-2), FC-12-2 (RM B07-2), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE604.
  - ROOF MOUNTED CONDENSING UNIT CU-7 SERVICES UNITS: FC-4-2 (RM GC13-2), FC-5-2 (RM GD05-2), FC-8-2 (RM 1C14-2), FC-9-2 (RM 1D09-2), FC-10-2 (RM 1D12-2), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE604.
  - ROOF MOUNTED CONDENSING UNIT CU-8 SERVICES UNITS: FC-1-3 (RM GA08C-3), FC-4-3 (RM 1A13C-3), FC-8-3 (RM 2A23C-3), FC-9-3 (RM 2B01A-3), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE604.
  - ROOF MOUNTED CONDENSING UNIT CU-10 SERVICES UNITS: FC-2-3 (RM GB01A-3), FC-3-3 (RM GC14B-3), FC-5-3 (RM 1B01A-3), FC-6-3 (RM 1C18C-3), FC-7-3 (RM 1D01-3), FC-10-3 (RM 2C14B-3), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-11 SERVICES UNITS: FC-1-4 (RM BB03A-4), FC-2-4 (RM 1A30A-4), FC-3-4 (RM 1B14-4), FC-4-4 (RM 1C40A-4), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-3 SERVICES UNITS: FC-24-1 (RM 4C22B-1), FC-21-1 (RM 3C20B-1), FC-15-1 (RM 2C20B-1), FC-18-1 (RM 3EAC-1), FC-10-1 (RM 1F02-1), FC-5-1 (RM 1C12-1), FC-7-1 (RM 1EAC-1), FC-28-1 (RM GB05-1), FC-29-1 (RM GB08-1), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE603.
  - ROOF MOUNTED CONDENSING UNIT CU-2 SERVICES UNITS: FC-2-1 (RM 1B05-1), FC-4-1 (RM 1B29-1), FC-11-1 (RM 1G14-1), FC-14-1 (RM 2B09-1), FC-20-1 (RM 3B09-1), FC-25-1 (RM 4D05-1), FC-26-1 (RM 5B13B-1), FC-30-1 (RM GC10B-1), FC-32-1 (RM 4B13-1), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE603.
  - ROOF MOUNTED CONDENSING UNIT CU-14 SERVICES UNITS: FC-1-7 (RM 1A38-7), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-1 SERVICES UNITS: FC-2-7 (RM 1C10-7), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-16 SERVICES UNITS: FC-2-8 (RM 2A02A-8), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - CONDENSING UNIT CU-18 MOUNTED ON GRADE SERVICES UNITS: FC-1-18 (RM 1A06-18), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-21 SERVICES UNITS: FC-1-13 (RM 1A02-13), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - CONDENSING UNIT CU-19 MOUNTED ON GRADE SERVICES UNITS: FC-1-15 (RM GA04-15), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - CONDENSING UNIT CU-20 MOUNTED ON GRADE SERVICES UNITS: FC-1-11 (RM 1A25-11), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - ROOF MOUNTED CONDENSING UNIT CU-13 SERVICES UNITS: FC-2-5 (RM 1A14-5), AS SHOWN ON SCHEMATIC LOCATED ON SHEET GE605.
  - FAN COIL UNIT SERVED BY CU-1 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE102.
  - FAN COIL UNIT SERVED BY CU-4 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE104.
  - FAN COIL UNIT SERVED BY CU-5 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE104.
  - FAN COIL UNIT SERVED BY CU-6 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE105.
  - FAN COIL UNIT SERVED BY CU-7 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE105.
  - FAN COIL UNIT SERVED BY CU-8 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE106.
  - FAN COIL UNIT SERVED BY CU-10 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE106.
  - FAN COIL UNIT SERVED BY CU-11 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F5/GE106.
  - FAN COIL UNIT SERVED BY CU-3 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE102.
  - FAN COIL UNIT SERVED BY CU-2 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE102.
  - FAN COIL UNIT SERVED BY CU-15 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C5/GE108.
  - FAN COIL UNIT SERVED BY CU-16 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F5/GE108.
  - FAN COIL UNIT SERVED BY CU-18 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE110.
  - FAN COIL UNIT SERVED BY CU-21 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE109.
  - FAN COIL UNIT SERVED BY CU-19 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C5/GE111.
  - FAN COIL UNIT SERVED BY CU-20 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F5/GE111.
  - FAN COIL UNIT SERVED BY CU-13 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET F1/GE107.
  - FAN COIL UNIT SERVED BY CU-14 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C5/GE108.
  - CONDENSING UNIT TO BE INSTALLED ON GRADE.
  - FAN COIL UNIT SERVED BY CU-22 AS SHOWN ON MECHANICAL PLAN LOCATED ON SHEET C1/GE110.
  - ROOF MOUNTED CONDENSING UNIT CU-22 SERVICES UNITS: FC-1-38 (RM 1A08-38) AS SHOWN ON GE605.

- # ELECTRICAL KEYNOTES
1. REMOVE EXISTING LIGHT FIXTURE AND EXISTING LIGHT SWITCH. PROVIDE NEW CONDUCTORS AND JUNCTION BOXES. SHALL REMAIN IN-PLACE AND OPERABLE FOR FUTURE. LIGHT FIXTURE AND SWITCH SHALL BE REPLACED AND ALL INTERCONNECTING CIRCUITRY SHALL BE REMOVED. ILLUSTRATED ON NEW WORK DRAWINGS.
  2. REMOVE EXISTING UPS UNIT. RETURN ALL FUNCTIONAL UPS UNITS TO THE VA. DISPOSE OF ALL NON-FUNCTIONAL UPS UNITS USING PROPER METHODS.
  3. EXISTING EMERGENCY OUTLET SHALL REMAIN.
  4. PROVIDE NEW LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE AS DETAILED. RECONNECT EXISTING CIRCUIT TO POWER NEW LIGHT FIXTURE. PROVIDE AND INSTALL A 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
  5. PROVIDE LIGHT FIXTURE PER LIGHT FIXTURE SCHEDULE. EXTEND NEW CRITICAL POWER CIRCUIT BEING PULLED TO AMPERAGE NEW 1" BY 24" SQUARE D PANEL WITH A 20 AMPERE DUAL TECHNOLOGY OCCUPANCY SENSOR/LIGHT SWITCH COMBO TO CONTROL THE LIGHTING.
  6. PROVIDE UPS UNIT, APC-SMT2200RM2U (RACK MOUNTED) OR APC-SMT2200. RECONNECT EXISTING CIRCUIT TO UPS UNIT THAT IS A MINIMUM OF 10" BY 24" IN SIZE AND CAN HOLD A MINIMUM OF 125 LBS. SUBMIT SHELF TO VA AND ENEC&C FOR APPROVAL. INSTALL UPS ON SHELVING UNIT AND SECURE UPS TO SHELF AND WALL. RECONNECT EXISTING CIRCUITRY REMOVED/DISCONNECTED ITEM KEYNOTE 2.
  7. PROVIDE A FOUR-PHASE RED RECEPTACLE(S), HOLEY GRADE WITH STAINLESS STEEL ENGRAVED PLATE, FLUSH MOUNTED, WITH CIRCUIT NUMBER AND ENEC&C DESIGN NUMBER. INSTALL ON THE SAME PLATE. PATCH EXISTING WALL AS REQUIRED TO ACCOMMODATE NEW INSTALLATION.
  8. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOO STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
  9. PROVIDE A NEW SQUARE D, SINGLE POLE 20 AMPERE, NOO STYLE BOLTED CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION.
  10. PROVIDE A 20 AMP AMP THERMAL SWITCH RATED FOR MECHANICAL EQUIPMENT.
  11. PROVIDE WATER SENSOR UNDERNEATH RAISED FLOOR, TO BE CONNECTED AND CONTROLLED BY BUILDING MANAGEMENT SYSTEM.
  12. PROVIDE EMERGENCY SHUT OFF SWITCH FOR ALL IT POWER. LOCATE SWITCH IN PLAIN SIGHT BY EXIT. PROVIDE PLASTIC CONDUIT PROTECTOR FOR SHUT OFF SWITCH.
  13. PROVIDE ADEQUATE DRIP SHIELD OVER ALL IT EQUIPMENT.
  14. PROVIDE PLASTIC COVER TO PROTECT IT SHUT OFF SWITCH.
  15. PROVIDE NEW 120/208V 3ø, 100A SQUARE D PANEL WITH 24 SPARE 20 AMP 1 POLE BREAKER, PULL POWER FROM 4LGB2. PROVIDE A 100A, 3 POLE BREAKER FOR UNITS 20,22,24. RELOCATE EXISTING AIR HANDLER UNIT FED FROM 4LGB2-20,22,24 TO NEW PANEL 4CGB1-2,4,6 USE EXISTING CONDUIT. RE-PULL NEW CONDUCTORS TO MATCH EXISTING AND PROVIDE NEW CIRCUIT BREAKER TO MATCH EXISTING FOR AIR HANDLER UNIT RE-WIRING.
  16. PROVIDE A NEW SQUARE D, 3 PHASE, 3 AMPERE 120/208V 3Ø, 100A CIRCUIT BREAKER FOR NEW CIRCUIT. GENERATE AND REPRINT NEW COMPUTER GENERATED, TYPEWRITTEN PANEL CIRCUIT DIRECTORY SCHEDULE WITH THE UPDATE CIRCUITRY INFORMATION. PROVIDE A 30A 3 PHASE, NEMA 3R DISCONNECT AT CU.
  17. PROVIDE NEW 120/208V 3ø, 100A SQUARE D PANEL WITH 24 SPARE 20A AMP 1 POLE BREAKERS, PULL POWER FROM THREE LEAST CRITICAL CIRCUITS THAT YOU CAN RE-REF FROM YOUR CURRENT. COORDINATE WITH LAB PERSONNEL AND COTR. RE-PULL NEW CONDUCTORS; CONDUIT AND PROVIDE A NEW CIRCUIT BREAKER TO MATCH EXISTING FOR RE-WIRING.

Drawing Title  
ENLARGED IT CLOSET PLANS

Approved: Project Director

Project Title	RENOVATE INFORMATION TECHNOLOGY CLOSETS
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Location  
VAMC - SLC, UT

Date  
OCTOBER 30, 2012

Checked
TXH

Drawn	PSS
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Project Number
660-11-113

Building Number  
B.03

Drawing Number	
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GE420

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Office of  
Construction  
and Facilities  
Management



Department of  
Veterans Affairs